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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| 09/842,943 | 04/26/2001 | Qing Wang | 13126-002001 | 1192 |

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EXAMINER

TRINH, TAN H

ART UNIT PAPER NUMBER

2684

DATE MAILED: 07/13/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/842,943

Applicant(s)

WANG, QING

Examiner

TAN TRINH

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 22 April 2004.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-22 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-3, 5, 11 and 14-16 is/are rejected.
- 7) ☒ Claim(s) 4, 6-10, 12, 13 and 17-22 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 6.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Information Disclosure Statement

1. The information disclosure statement filed 4-23-2004 has been received and placed of record in the file.

Allowable Subject Matter

2. Claims 4, 6-10, 12-13 and 17-22 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Reasons for allowance

3. The following is a statement of reasons for the indication of allowable subject matter:

Claims 4, 6-10, 12-13 and 17-22 are allowed with the same reasons set forth in the previous Office action (paper # 3).

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 1-3, 5, 11 and 14-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Smith (U.S. Patent No. 6,333,973) in view of Fukushima (U.S. patent No. 5,724,457).

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Regarding claims 1 and 14, Smith teaches the method for inputting, displaying and transmitting handwriting characters in a mobile phone (see figs. 1-3 and 13C, and col. 11, lines 11-15) comprising the following steps of:

- a) inputting handwriting characters (see fig. 13C, col. 9, and lines 18-20);
- b) sampling the handwriting characters (see fig. 13C, col. 9, lines 18-20, when the mobile phone bit map the ink message and converts it to SMS characters for transmission which it sampling and encoding before transmitted); ;
- c) performing A/D conversion of the sampled handwriting characters to obtain a signal (see fig. 3, col. 5, lines 35-36, and fig. 13C, col. 9, lines 18-20, when the mobile phone bit map the ink message and converts it to SMS characters for transmission which it sampling and encoding before transmitted);
- d) encoding the signal in accordance with a specific protocol to obtain encoded data (see col. 7, lines 8-11)
- e) converting the encoded data into mobile phone acceptable data, and outputting them (see col. 7, lines 8-11) ;
- f) processing the mobile phone acceptable data to display the handwriting characters and to transmit them as a short message, or to receive and display a short message (from other mobile phone) comprising the handwriting characters (see fig. 8B and col. 9, lines 17-22, fig. 9 A-B and col. 9, lines 24-27, fig. 13A-C).

Moreover, Fukushima also teaches the method for inputting handwriting characters in electronic device or equipment (see Fukushima, col. 1, lines 14-20); and comprising the steps of: inputting handwriting characters (see Fukushima, col. 1, lines 14-20); the sampling the

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handwriting characters (see col. 3, lines 1-5), performing A/D conversion of the sampled handwriting characters (see col. 3, lines 1-5), and encoding the signal (see col. 9, lines 8-11).

Therefore it would have been obvious to modify the system of Smith and by the teaching of Fukushima on the sampling and encoding technique thereto in order to input the handwriting character directly on the mobile phone display so that user can write message (SMS) on cell-phone easier.

Regarding claims 2 and 15, Smith teaches the performing a level conversion with respect to an external interface of a handwriting character input module (see col. 6, 27-59).

Regarding claims 3 and 16, Smith teaches providing an additional power supply to the handwriting character input module (see fig. 3 switching power supply 3900 and battery pack 3800, col. 6, lines 60-65).

Regarding claim 5, Smith teaches decoding the short message including the handwriting characters after receiving it so that the handwriting characters included in the short message can be identified (see col. 8, lines 12-34).

Regarding claim 11, Smith teaches wherein the step of decoding the short message including handwriting characters includes the following steps of determining whether or not the received short message includes handwriting characters; decoding the handwriting characters if the short message includes the handwriting characters; and processing standard characters included in the received short message in a

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conventional manner, if any (see col. 8, lines 27-30, lines 46-57, col. 10, lines 61-67, col. 11, lines 1-11).

Response to Arguments

6. Applicant's arguments filed 4-22-2004 have been fully considered but they are not persuasive.

Response to Arguments

Applicant's arguments the reference of Smith is not teach or suggest, an A / D conversion and encoded data. However the examiner does not agree. Since the reference of Smith teaches the caller enters the ink message by writing directly on mobile telephone display, the mobile phone bit maps the ink message and converts it into SMS characters for transmission, that is an A / D conversion (see col. 9, lines 18-21), and Smith teaches the processor 3300 provide graphical user interface feature and communicates with block 3250 using UART data link, the data is encoded then transferred to a Universal Synchronous Asynchronous ReceiverTransmitter ("UART") (see fig. 3, the display module and UART 3300, col. 5, lines 52-53 and col. 6, lines 55-59).

Therefore, the rejection of claims 1 and 14, are read on an A / D conversion and encoded data by reference of Smith.

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Conclusion

7. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action.

8. **Any response to this action should be mailed to:**

Commissioner of Patents and Trademarks
Washington, D.C. 20231

or faxed to:

(703) 872-9314, (for Technology Center 2600 only)

*Hand-delivered responses should be brought to Crystal Park II,
2121 Crystal Drive, Arlington, VA., Sixth Floor (Receptionist).*

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tan Trinh whose telephone number is (703) 305-5622. The examiner can normally be reached on Monday-Friday from 9:30 AM to 6:00 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nay Maung, can be reached at (703) 308-7745.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the **Technology Center 2600 Customer Service Office** whose telephone number is **(703) 306-0377**.

Tan H. Trinh
Art Unit 2684
July 7, 2004



NICK CORSARO
PATENT EXAMINER